

Actomyosin and Its Components, by H. Portzehl,
Gerhard Schramm, Hans H. Weber, 41 pp.

Full translation.

GERMAN, per, IKH Zeitschrift fuer Naturforschung,
Vol Vb, No 2, 1950, pp 61-74.

CIA/FDD/X-873

Scientific - Chemistry

Jun 53 CTS

2789

On the So-Called " δ -Hexachlorocyclohexane." III (1),
by R. Riemschneider, G. Ottmann, 15 pp.

GERMAN, par, Z. Naturforschung, Vol V b, 1950,
pp 307-311.

8

S.L.A. Tr No 538/1955

" S.L.A. TT-64-(C15)

45, 881

Sci - Chemistry
Mar 1957 CFB/dex

Cylindrical Arc Columns, by
Georg Schmitz.
GERMAN, per, Zeit Naturforsch Pt A.
Vol W, 1950, pp 571.
*NASA TT F-10, 463

Sci-Mechanical, Industrial Civil and Marine
Engr
Jan 67
U. S. GOVERNMENT USE ONLY

61-10540

Ehrhardt, H. and Osberghaus, O.
MASS SPECTROMETRIC EXAMINATION OF HYDROCARBONS AT HIGH TEMPERATURES (Massenspektrometrische Untersuchungen von Kohlenwasserstoffen bei Hohen Temperaturen). [1960] [12]p. 10 refs.
Order from SLA ml\$2.40. ph\$3.30 61-10540

Trans. of Z[schrift] [für] Naturforschung (West Germany) 1958, v. 13a [no. 1] p. 16-21.

The mass spectra of nine saturated hydrocarbons with 5, 6 and 7 C atoms are studied in the temperature range between 100 and 900°C. For measurement the walls of the ionization zone of the ion source in which the gas to be studied is present under a pressure of ca. 10^{-5} Torr. can be heated to ca. 1000°C. Gold serves as the wall material. For one of the hydrocarbons (2, 2-dimethylbutane) an additional measurement was made of how the spectrum changes when the walls of the ionization zone are clad with a cracking catalyst. The catalyzed methane formation could be (Physics--Spectroscopy, 12 May 61) (over)

1. Hydrocarbons--Spectrographic analysis
 2. Mass spectrometers--Applications
- I. Ehrhardt, H.
 - II. Osberghaus, O.

151455

Office of Technical Services

On the Theory of the Thermoelectric Effects in
Semi-Conductors, by Otfried Madelung, 11 pp.

GERMAN, per, Z Fuer Naturforsch, Vol XIIIa,
No 1, 1958, pp 22-25.

Engr Res Devel. Lab T-381

Sci - Phys, *electronics*

Dec 58

78,280

<p>Pahl, M. and Weimer, U. THE REACTION $He_2^+ + Ne \rightarrow Ne^+ + 2He$ IN A POSITIVE COLUMN (Die Reaktion $He_2^+ + Ne \rightarrow Ne^+ + 2He$ in der Positiven Saule). [1960] [5]p. 11 refs. Order from SLA mi\$1.80, ph\$1.80 61-10599</p>	<p>61-10599</p>
<p>Trans. of Zeitschrift für Naturforschung (West Germany) 1956, v. 13a [no. 1] p. 50-51.</p>	<p>1. Helium--Chemical reactions 2. Neon--Chemical reactions I. Pahl, M. II. Weimer, U.</p>
<p>151454</p>	<p>Office of Technical Services</p>
<p>(Chemistry--Physical, TT, v. 5, no. 8)</p>	

<p>Herzog, W. and Dornenberg, E. THE USE OF METHYL CHLORIDE FOR MASS SPECTROMETRIC ISOTOPE ANALYSIS OF CHLO- RINE (Die Verwendung von Methylchloride zur Massenspektrometrischen Isotopenanalyse von Chlor). [1960] [6]p. 12 refs. Order from SLA ml\$1.80, ph\$1.80 61-10538</p> <p>Trans. of Zeitschrift für Naturforschung (West Germany) 1958, v. 13a [no. 17] p. 51-52</p>	<p>61-10538</p> <ol style="list-style-type: none">1. Chlorine isotopes-- Spectrographic analysis2. Methyl chlorides-- Applications3. Mass spectrometers-- Applications <ol style="list-style-type: none">I. Herzog, W.II. Dornenberg, E.
<p>151453</p>	
<p>(Physics--Spectroscopy, TT, v. 3, no. 8)</p>	<p>Office of Technical Services</p>

State of Ionisation and Radiation From Impurity
Gases in a Hydrogen Plasma, by G. Knorr.

GERMAN, per, Z Fuer Naturforschung, Vol XIII A, 1958,
pp 71-73.

*AEC

Sci - Chem, Phys

Feb 59

The Behavior of Plane Ultrasonic waves in
Homogeneous Magnetized Single Crystals,
by G. ~~W~~ Simon, 10 pp.

GERMAN, per, Z Naturforsch. Vol XIIIa, No 1,
1958, pp 84-89.

ATS-76M37G

ATS-409-GJ

188, 318

Sci
Vol 4, No 1

Mar 62

PRODUCTION OF Crystals FROM Decomposition Compounds
by Albrecht Fischer, 21 pp.

GERMAN, per, Z fuer Naturforsch, Vol XIIIa, 1958,
pp 105-110. 407757

AEC UCRL-Trans-612(L)

Sci 9- Chem

ABSL Trc 157

Jul 61

157, 433

Ein Verfahren zur Bestimmung der Wärmeleit-
fähigkeit Dunner Proben bei Hohen Temperaturen.
Aus dem Institut für Physikalische Chemie
der Universität Munster, by Franz Ph. Pott.
GERMAN, per, Zeit Naturforschg, No 13a,
1958, pp 116-125.
*CFSTI TT 67-59059

Jun 67

Electrotransport Measurements in the Alpha-Phase
of the Ag-Zn System, by H. G. Faller.
GERMAN. per. Z Naturforsch. No 13a, 1958, pp 152-
160.
*NBS TT 70-57434

Sci-Mat
Aug 70

Gene-Electrophoretic Research on Hemolymph Proteins
of Insects in Different Stages of Larva Development,
by J.M. Danice.
GERMAN, per. Z. Naturforsch., Vol. 19b, 1958,
pp 215-218
IRRS/Ref. C-4131

Sci -
July 1957

334-413

61-12413

Ewald, H., Felkel, G. and others.
AGE DETERMINATIONS OF ROCKS USING THE RUBIDIUM-STRONTIUM METHOD. [1960] 2p.
Order from ATS \$4.50 ATS-21M47G

Trans. of *Zeitschrift für Naturforschung* (West Germany) 1958, v. 13a, no. 3, p. 235.

146,949

- I. Geological time--
Determination
 - II. Rock--Physical properties
 - III. Rubidium--Applications
 - IV. Strontium--Applications
- I. Ewald, H.
 - II. Felkel, G.
 - III. ATS-21M47G
 - IV. Associated Technical Services, Inc. East Orange, N. J.

Office of Technical Services

(Earth Sciences--Geology, TT, v. 5, no. 5)

Emission and Absorption of Long-Wave Infrared
Radiation by Germanium in a Photoconductive State,
by F. R. Kessler, 19 pp.

GERMAN, per, Z Naturforschung, Vol. XIIIa, No 4,
1958, pp 295-302.

SLA 59-10724

Sci - Phys
Sep 59
Vol 2, No 1

97790

Manganesepentacarbonylhydrogen, $H\text{Mn}(\text{CO})_5$
by W. Hieber, G. Wagner.
GERMAN, per, Zeit fur Naturforschung Vol XIIIb
No 6, 1958, pp 339-347.
SLA TT 64-30116

May 67 325,022

Production of Helium and Argon in Iron by High
Energy Protons, by O. A. Schaeffer, J. Zehring,
7 pp.

GERMAN, per, Z Naturforsch, Vol XIIIa, 1958,
pp 346, 347.

AEC BNL 3495

Sci - Chem

Jan 59

79,569

A Volume Effect by Corrosion of Silicon Single
Crystals, by Hansjochen Benda, 4 pp.

GERMAN, per, Z. Naturforschung, Vol XIIIa
1958, pp 354-355. 9078408

A AEC UCRL-Tr-830

Sci - Phys 210,931
Sep 62

Shadows of Dislocation Lines in X-Ray Diagrams,
by G. Borrmann, W. Hartwig, H. Irmeler, 10 pp.

GERMAN, per, Z fur Naturforschung, Vol XIII A,
No 5, 1958, pp 423-425.

SLA 60-18797

Sci

Apr 61

146,169

Geometrical Influence on the Transverse Magnetic
Resistance Effect in Rectangular Semiconductor Plates,
by Hans-Joachim Lippmann, Friedrich Kuhrt, 26 pp.
GERMAN, per, Z fuer Naturforschung, Vol XIIIa,
1958, pp 462-474. 9226599
AEC-UCRL-Tr-1088 (L)

PHG/ENG

Sci-Electr
Jan 65

271,817

The Effect of Geometry on the Hall Effect in the
Case of Rectangular Semiconducting Plates, by
Hans-Joachim Lippmann, Friedrich Kuhrt, 31 pp.

(B GERMANY, per, Z Naturforsch, Vol XIIIa, 1958,
pp 474-483.

ABO UCRL-Trans-490(L)

Sci - Math
9 Jan 61
List 46

135,542

62-14353

Franz, Walter.
THE INFLUENCE OF AN ELECTRIC FIELD ON AN
OPTICAL ABSORPTION EDGE. [1961] 13p. 3 refs.
Order from SLA \$1.60 62-14353

I. Franz, W.

Trans. of Z[eitschrift für] Naturforsch[ung] (West
Germany) 1958, v. 13a [no. 6] p. 484-[489].

DESCRIPTORS: *Electric fields, *Optics, *Absorption,
Absorption spectra, *Electrons, Penetration, Frequency
modulation, Modulation, Frequency, *Crystals.

In an electric field on the order of magnitude of 10^5 to
 10^6 v/cm, one may expect a change in the absorption
edge which consists of a broadening of the base of the
edge at the expense of higher frequencies. One can
understand this effect, either as the penetration of elec-
trons into the forbidden band (the step preceding the in-
ternal field emission), or as a frequency modulation
(Physics, TT, v. 8, no. 3) (over)

Office of Technical Services

63-10880

Kauer, E. and Rabenau, A.
INFORMATION CONCERNING THE SEMICONDUCTOR
BEHAVIOR OF THE CHALCOGENIDES OF ALUMI-
NIUM, GALLIUM AND INDIUM. [1962] 5p. 24 refs.
Order from SLA \$1.10 63-10880

I. Kauer, E.
II. Rabenau, A.

Trans. of Zeitschrift für Naturforschung (West
Germany) 1964, v. 13ii, p. 531-536.

DESCRIPTORS: *Semiconductors, *Aluminum com-
pounds, *Gallium compounds, *Indium compounds,
*Chalcogenides, Chemical bonds, Band spectrum,
Temperature.

It is confirmed by optical measurements that all
chalcogenides of aluminum, gallium and indium of the
type A_2III_2IV possess semiconductor character. The
band intervals and their temperature dependences are
given and compared with the results of other authors.
(Physics--Solid State, TT, v. 10, no. 2) (over)

Office of Technical Services

Some Studies of a High Frequency Source, by R. Holtz
H. Lab. UNCLASSIFIED

GERMAN, per, Z. fur Naturforschung, Vol XIII, No 8,
Aug 1958, pp 602-608. ³⁸⁷⁶⁸¹

60-18649
Navy 2388/NEL 764

Sci - Physics
Dec 59

CIA/FID X-3796

103435

Scandium 45 as Spallation Product of the Cosmic
Ray Rays in Iron Meteorites, by H. Wanke,
pp 19-61.

GERMAN, per, Z, Naturforsch, Vol XIII, Aug 1958,
pp 645-649.

free

AEC AFRL-TR-60-411

Sci
Sep 61

166,206

62-14475

Barth, H.
MONOCHROMATIZATION OF AN X-RAY SPECTRUM LINE. [1962] [60]p. 35 refs. 62-14475
Order from SLA \$5.60

1. Barth, H.

Trans. of Zeitschr[ift] für Naturforschung (West Germany) 1958, v. 13a, no. 8, p. 680-698.

DESCRIPTORS: *X-ray spectrum, *Monochromatic light, Resolutions, Single crystals, *Quartz crystals, Crystal structure, Lattices, X-ray diffraction analysis.

Partial regions with a spectrum width of 0.02KE of the X-ray spectrum can be screened out by means of suitably arranged diaphragms on lattice plane 2354 of a particularly good quartz single crystal. Thus, further monochromatization of the $\text{CuK}\alpha_1$ -line to 1/30 of its "natural" line half-width is possible. Various new types of experimental arrangements are (over)

Office of Technical Services

Measurement of the Self Absorption of β -Rays with
A G.T. Counter, by H. Meister,

GERMAN, part, Zeitschrift für Naturforschung, Vol. XIIIa,
1958, pp 722-740, 9072293.

ACSIL No 1217

Sci

Nov 60

131,435

Activation of Foils in a Thermal Neutron
Field, by H. Meister.
GERMAN, per, Zeitschrift fuer Naturforschung.
Ausgabe A, Vol 13, 1958, pp 738-740.
NTC-71-14861-20H

Feb 72

61-10537

Pahl, M. and Weimer, U.
FLOW DISCHARGE MASS SPECTROMETRY (Zur
Massenspektrometrie an Glimmentladungen). [1960]
[18 p. 25 refs.
Order from SLA ml\$2.40, ph\$3.30 61-10537

Trans. of *Z[schrift für] Naturforschung* (West
Germany) 1958, v. 13a [no. 9] p. 745-753.

The connection of a direction-focussing 60° mass spectrometer to the stationary positive low pressure column for the purpose of measuring ion flow rates is described. Ions are obtained from the plasma by ambipolar effusion. Ions which have very different mobilities diffuse with different energies. Such energy differences are established by a counterfield method and measured between $Ne^+ - Ne_2^+$, $Ne^+ - NeH^+$, $He^+ - He_2^+$. The isotopes of neon have the same energy within the accuracy of measurement achieved. Quantitative evaluation shows that no volume recombination processes are observed in He and Ne under the conditions selected. (Author)
(Physics--Spectroscopy, TT, v. 3, no. 7)

1. Glow discharges--ionizing effects
 2. Mass spectrometers--Applications
 3. Gas discharges--Spectrographic analysis
- I. Pahl, M.
II. Weimer, U.

148,534

Office of Technical Services

61-10536

Pahl, M. and Weimer, U.
FORMATION OF He_2^+ AND Ne_2^+ IN A STATIONARY
POSITIVE LOW PRESSURE COLUMN (Zur Bildung von
 He_2^+ und Ne_2^+ in der Stationären Positiven
Niederdrucksaule). [1960] [9]p. 19 refs.
Order from SLA mi\$1.80, ph\$1.80 61-10536

Trans. of Z[schrift für] Naturforschung (West
Germany) 1958, v. 13a [no. 9] p. 753-757.

Using an apparatus recently described (discharge tube
connected to a mass spectrometer) ion effusion flows
from the stationary positive column are measured in
He and Ne glow discharges. The effusion flow of a
specific type of ion is proportional to its rate of forma-
tion in the plasma. The formation ratios of He_2^+/He^+
and Ne_2^+/Ne^+ are shown in relation to total pressure
(0.1-5 Torr) and the measured curves are discussed.
(Translator)

(Physics--Spectroscopy, TT, v. 5, no. 7)

1. Glow discharges--ionizing effects
 2. Mass spectrometers-- Applications
 3. Gas discharges-- Spectrographic analysis
- I. Pahl, M.
 - II. Weimer, U.

148,533

Office of Technical Services

The Effect of Oxygen, Hydrogen, and Water Vapor
on the Electrical Conductivity of Barium Oxide and
Barium-Strontium Oxide, by J. Rudolph, 24 pp.

in GERMAN, per, Zeitschrift fuer Naturforschung,
Vol XIIIa, 1958, pp 757-767. 9209174

ABC-UCRL-Tr-929 (L)

Sci - Chem

Jul 63

235,702

Barth, H. and Hoemann, R.
APPLICATION OF THE PARALLEL BEAM METHOD
OF IRRADIATION TO X-RAY EXAMINATION OF THE
INTERIOR OF A CRYSTAL. [1961] 7p. 8 refs.
Order from SLA \$1.10 61-18916

Trans. of *Zeitschrift für Naturforschung* (West
Germany) 1958, v. 13a, no. 9, p. 792-794.

DESCRIPTORS: *Quartz crystals, *Silicon, *Crystals,
X-ray diffraction analysis, Monochromatic light,
Bremsstrahlung, Deformation.

(Physics--Solid State, TT, v. 6, no. 10)

61-18916

I. Barth, H.
II. Hoemann, R.

187308

Office of Technical Services

Some Experiments on the Diffusion of ^{ff}X₂-133 Out
Of Uranium Oxides, by R. Lindner, H. J. Matzka,
3 p.

GERMAN, per, Zeit Naturforsch, 1958, Vol XIIIa,
pp 794-796.

ATS-68L33G

Sci
Mar 60
Vol 2, No 11

109,656

Influence of Polarization of the Semiconducting
Properties of the AB_2B_3V - Compounds, by O. G.
Folberth, 18 pp.

GERMAN, per, Z Naturforsch, Vol XIII A, 1958, pp
856-865.

CIA/FDD XX-629
NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chemistry
Aug 59

USIB INTERNAL USE ONLY

93,422

63-17112

Richter, H. and Herre, F.
THE STRUCTURE OF SOLID AMORPHOUS AND MOL-
TEN SELENIUM IN THE TEMPERATURE RANGE OF
-180 to 430° C. [1963] 16p.
Order from ATS \$18.50

ATS-76Q67G

Trans. of Z[schrift für] Naturforsch[ung]
(West Germany) 1958, v. 13a, p. 874-885.

DESCRIPTORS: Solids, Melting, *Selenium, Tempera-
ture, Crystal structure.

- I. Richter, H.
- II. Herre, F.
- III. ATS-76Q67G
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

(Physics--Solid State, TT, v. 10, no. 1)

Office of Technical Services

Structure of Amorphous Germanium and Silicon,
by H. Richter, G. Breitling.
GERMAN, per, Zeits. fur Naturforsch, Vol 13a,
1958, pp 988-996. P011066067
AEC AERE-tr-1059

ATS 1201-GJ

Sci/Materials
Mar 67

318,580

The decay of ¹⁸⁰Ta. Part II, by Von F. Eberhardt,
Gh. Gh. per, Z Naturforsch 13a, 1958, pp 1004-
*AEC/ORNL-Tr-3226

Sci/
Nov 69

Electrokinetics of Liquid Metals, by A. Kleron.
16 pp.

CONTINIAN, per, Z Naturforsch, Vol XIIIb, 1958,
pp 1039-1049.

AND HP-tr-314

Sci
Feb 60

107,540

The Metabolism of p-Aminobenzoic Acid, Folic Acid
and Aminopterin in Enterococcus, by A. Wacker,
M. Ebert, H. Kola, 19 pp.

GERMAN, per, Z. fuer Naturforschung, Vol XIIIb,
1958, pp 141-147.

NIH 12-4

Sci - Medicine
Jan 60

105,296

The Electron Microscopic "Staining" of Collagen and the Development of a Highly Subdivided Cross Striation, by K. Kuhn, W. Grassmann, U. Hofmann, 22 pp.

GIBSON, per, Z. Naturforsch, Vol XIII, 1958, pp 154-160.

NIH 1-8-61

Sci - Med
Mar 61

141,635

On the Origin of Promitochondria and Their
Development Into Functioning Mitochondria
in the Cells of Embryonic and Tumor Tissues,
by H. Weissenfels, 8 pp.

GERMAN, per, Z fuer Naturforschung, Vol XIIIb,
No 4, 1958, pp 203-205.

NIH 3-40-60

Sci - Med.

May 60

117,324

Biosynthesis of Carotenoids by *Chlorella*, IV.
Carotene Synthesis of a *Chlorella*- Mutant by
Anaerobic Exposure, by Hedwig Claes, 6 p.

GERMAN, par, *Zeit. fur Naturforschung*, 1958,
Vol XIIIb, No 4, pp 222-224.

SLA 60-10718

Sci

May 60

Vol 3, No 4

116, 714

The Morphology of Collagen: Cross Structure,
Elementary Fibrils and Arrangement in the
Cellular Association, by T. Nemetschek, 32 pp.

GERMAN, per, Z fur Naturforschung, Vol XIIIb,
No 4, 1958, pp 225-234.

SLA 61-10010

S₀i

146,179

Apr 61

OTS, Vol V, No 1

ON THE SUBMICROSCOPIC STRUCTURE OF THE CELL NUCLEUS
OF EHRLICH'S ASCITES CARCINOMA OF THE WHITE MOUSE,
BY W. NIKLOWITZ, 4 PP.

GERMAN, PER, Z NATURFORSCH, VOL XIII B, NO 7, 1958,
PP 454-456.

NIH 7-9-62

SCI -- BIOLOGY

OCT 62

213,055

The Existence of Boron Nitride Intercalation Compound
by Ruedorff, E. Stumpp, 4 pp.

GERMAN, per, Z Naturforschung, Vol XIIIb, No 7, 1958,
p 459

SIA 59-10735

Sci - Chem
Sep 1959
Vol 2, No 1

97,289

A Stable, Mesomeric Oxygen-Carbon-Nitrogen
Radical, the 4-Cyano-2, 6-ditert.-butyl-phenoxy-
(1), by K. Lay, K. Scheffler, A. Riaker, E. Muller.

GERMAN, par, Z. Naturforsch, Vol XIIIb No 7, 1958,
pp 460, 461.

NRXC 7T-871

Sci - Chemistry
Jan 61

136,412

Heterocyclic Compounds in the Metabolism. VII. On
the Biosynthesis of Riboflavin, by P. Horte, K. H.
Alög, H. G. Schicke, 3 pp.

GERMANY, Zeitschrift für Naturforschung, Vol. XIVb, No 7,
1958, pp 463, 464.

SLA 59-2053A

Sci - Med
Sep 59
Vol. 2, No 2

14626

Catalase Content, Fermentation and Respiration
in Cell Culture According to Dulbecco-Vogt, by
O. Warburg, K. Gewehr, A. W. Geissler, 7 pp.

GERMAN, per, Zeitschrift fuer Naturforschung,
Vol XIIIb, No 9, 1958, pp 588-590.

MR 4-136-60

118,913

Sci - Medicine
Jun 60

Muonistic X-ray Actinometer and the Effect of
X-Rays on the Fermentation of Cancer Cells, by
O. Warburg, W. Gunroder, H. S. Gewitz, W. Volker,
17 pp.

GERMAN, per, Zeitschrift fuer Naturforschung,
Vol XIIIb, No 9, 1958, pp 591-596

NIH 4-27-60

Sci - Medicine
Jun 60

118,914

*An Electron Microscope Study of Plasmas Con-
taining Deoxyribonucleic Acid. 1: The
Nucleoids of Bacteria in Active Growth, by
A. Ryter.*

GOVERNMENT USE ONLY

GERMAN, *par.* Z. Naturforsch. Vol 13b, 1958,
pp 597-605.

NASA TT F 13076

sci/physics
sept 70

On the Three Modifications of Glycine, by W. Hubig,
16 p.

GERMAN, per, Zeit für Naturforsch, 1958, Vol XIIIb
No 10, pp 633-638.

SLA 59-20625

Sci
Feb 60
Vol 2, No 12

108,230

Chemical Determination of the Biologically
Active Unit in the Ribonucleic Acid of the
Tobacco Mosaic Virus, by H. Schuster,
G. Schramm, 16 pp.

GERMAN, per, Zeitschrift fuer Naturforschung,
Vol 13b, No 11, 1958, pp 697-704.

NIH 6-20-61

Sci - Med

175,960

Dec 61

Metabolism and Accumulation of Veropen^(R) in the
Body of the Rat, by B. Dulm, L. Koester, W. Maul,
H. Mademuid, 4 pp.
GERMAN, par, Z. Naturforsch, Vol. XIII, 1958,
pp 756, 757. *full*

NOH 11-3-59

Sci - Medicine
Dec 59

102,641

The Effect of the Decay of Radioactive Phosphorus
on Mutation of Genes When Incorporated Into the
Cells of Escherichia Coli, by F. Kaudewitz, W.
Vielmetter, H. Friedrich-Freksa, 13 pp.

GERMAN, per, Z fuer Naturforschung, Vol XIII B,
1958, pp 793-802. 9071252

AEBC Tr-4110

Sci - Nuc Phys
Aug 60

125,154

Detection of Thyroxamine in Thyroid and Plasma,
by G. Hillmann, B. Keil, P. Maslani, 4 pp.

GERMAN, per, Zeit fuer Naturforschung, Vol XIIIB,
No 12, 1958, pp 820, 821.

Sci - Medicine
Dec 59

NIH 11-7

Lansing, In Bu

SLA 59-22092

102,645

Seeger, Alfred and Kröner, Ekkehart.
THEORY OF SMALL-ANGLE SCATTERING OF
X-RAYS AND NEUTRONS BY INTERNAL STRESSES
IN SOLID BODIES, PARTICULARLY BY DISLOCA-
TIONS. [1961] 20p. 16 refs.
Order from SLA \$1.60

61-14750

Trans. of Zeitschrift für Naturforschung (West
Germany) 1959, v. 14a, p. 74-80.

DESCRIPTORS: *Crystals, Stresses, Deformation,
Elasticity. *X-rays, *Neutrons, Scattering, Theory

...Solid State, TT, v. 6, no. 3)

I. Seeger, ...
II. Kröner, E.

14750

Office of Technical Services

use of the Non-linear Elasticity Theory for
Defects in Crystals, by A. Seeger, E. Mann.
GERMAN, per, Zeit. fur Naturforsch, Vol 14a,
1959, pp 154-164. P911067367
AEC AERB-tr-1062

Sci/Physics
Mar 67

318,573

by Mossbauer, Rudolfh

GERMAN, per, Z. fuer Naturforschung, Vol XIVa,
1959, pp 211-216.

*HPRS for ARGMA R-345-N

TT-63-20989

I. Frank, H.

Frank, H.
ON THE MULTISCATTERING AND BACK-DIFFUSION
OF RAPID ELECTRONS AFTER PASSAGE THROUGH
THICK LAYERS. [1963] 24p (figs tables omitted) 25refs
Order from SLA \$2.60 TT-63-20989

Trans. of Zeitschrift für Naturforschung (West
Germany) 1959, v. 14B, p. 247-261. (Abstract
available)

DESCRIPTORS: *Electron beams, Scattering, Dif-
fusion, *Folios, *Aluminum, *Copper, *Lead,
Betatrons, Particle accelerator targets,

There are discussed the angle- and energy-distributions
of the electrons scattered a metal foils (Al, Cu, Pb) by
compiling examples of the various cases of interest in
the practice. At this monoenergy electrons impinged at
a kinetic energy of 1.75 MeV under various incidence
angles on foils whose halfvalue angle gave at least 20deg
(Physics, TT, v. 11, no. 3) (over)

Office of Technical Services

The Edge Emission and Other Emissions of
GaN, by H. G. Grimmeiss, H. Koelmans.
GERMAN, per, Zeit Naturforschung, Vol 14a,
1959, pp 264-271.
NLL Ref: 8036.625 (195)

Sci-Nucl Sci
Mar 69

377,267

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